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Crepe paper prodn - using rollers heated to different temps

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Patent Family:

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Priority Applications (No Type Date): JP 70127280 A 19701229

Abstract (Basic): JP 73001443 B

Raw paper contg.  $\geq 20$  wt. % thermoplastic synthetic fibre is led, via a guide roller round a pair of heating rollers. The surface temp. of one roller ranges from the softening pt. of the thermoplastic synthetic fibre to  $30^\circ\text{C}$  > its melting point. The surface temp. of the other roller is somewhat lower. The raw paper is preheated by means of the cooler roller and adhered to its surface. The pre-heated raw paper is pressed at the contacting line between the cooler roller and the hotter roller and its temp. is elevated to that of the hotter roller. The raw paper is firmly adhered to the surface of the hotter roller. Then the raw paper is continuously scraped off the surface of the hotter roller by means of fixed doctor knife and fixed auxiliary doctor knife. Thus crepe patterns are formed on the raw paper. The creped raw paper is then led, via a guide roller round a cooling roller. Thus the crepe patterns on the raw paper can be completely heat set. The raw paper usually contains rayon fibre or pulp besides the thermoplastic synthetic fibre. The crepe patterns can be changed by controlling the temps. of the heating rollers.

Derwent Class: A97; F09; P72

International Patent Class (Additional): B29C-000/00; B31F-000/00